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Hellerstein, J.L.; Maccabee, M.M.; Mills, W.N., III; Turek, J.J.;
Distributed Computing Systems, 1999. Proceedings. 19th IEEE International C
31 May-4 June 1999 Page(s):152 - 162
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Stephenson, R.W.; McGaw, S.A.;
Network, IEEE
Volume 3, Issue 5, Sept. 1989 Page(s):25 - 26, 31-36
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Barrett, J.J.; Wunderlich, E.F.;
Network, IEEE
Volume 5, Issue 5, Sept. 1991 Page(s):12 - 16
Digital Object Identifier 10.1109/65.121954

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Charity, T.;
Nuclear Science, IEEE Transactions on
Volume 36, Issue 5, Oct 1989 Page(s):1726 - 1729
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☐   4. **CONDOR: an architecture for controlling the Utah-MIT dexterous hand**
Narasimhan, S.; Siegel, D.M.; Hollerbach, J.M.;
Robotics and Automation, IEEE Transactions on
Volume 5, Issue 5, Oct. 1989 Page(s):616 - 627
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☐   1. **Mobility management of interconnected virtual LANs over ATM networks**
Nen-Fu Huang; Yao-Tzung Wang; Bo Li; Te-Lung Liu;
Global Telecommunications Conference, 1996. GLOBECOM '96. 'Communica
Global Prosperity
Volume 2, 18-22 Nov. 1996 Page(s):1156 - 1161 vol.2
Digital Object Identifier 10.1109/GLOCOM.1996.587618

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☐   2. **Southwestern Bell Telephone's ISDN experience**
Stephenson, R.W.; McGaw, S.A.;
Network, IEEE
Volume 3, Issue 5, Sept. 1989 Page(s):25 - 26, 31-36
Digital Object Identifier 10.1109/65.35998

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☐   3. **DIGITAL FXI32 running 32-Bit x86 applications on Alpha NT**
Hookway, R.;
Compcon '97. Proceedings, IEEE
23-26 Feb. 1997 Page(s):37 - 42
Digital Object Identifier 10.1109/CMPCON.1997.584668

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Barrett, J.J.; Wunderlich, E.F.;
Network, IEEE
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Digital Object Identifier 10.1109/65.121954

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Le Boudec, J.-Y.; Port, E.; Truong, H.L.;
Communications Magazine, IEEE
Volume 31, Issue 2, Feb. 1993 Page(s):50 - 56
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☐   6.
CONDOR: an architecture for controlling the Utah-MIT dexterous hand

Narasimhan, S.; Siegel, D.M.; Hollerbach, J.M.;
Robotics and Automation, IEEE Transactions on
Volume 5, Issue 5, Oct. 1989 Page(s):616 - 627
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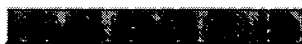
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41 Cluster resource management: An integrated experimental environment for distributed ▬
systems and networks
Brian White, Jay Lepreau, Leigh Stoller, Robert Ricci, Shashi Guruprasad, Mac Newbold, Mike Hibler, Chad Barb, Abhijeet Joglekar
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Full text available: 📄 pdf(2.10 MB)   Additional Information: full citation, abstract, references

Three experimental environments traditionally support network and distributed systems research: network emulators, network simulators, and live networks. The continued use of multiple approaches highlights both the value and inadequacy of each. Netbed, a descendant of Emulab, provides an experimentation facility that integrates these approaches, allowing researchers to configure and access networks composed of emulated, simulated, and wide-area nodes and links. Netbed's primary goals are *ease* ...

42 Future of simulation: Equipment interface: improving the quality of controls and ▬
reducing costs for on-site adjustments with emulation: an example of emulation in
baggage handling
William Rengelink, Yvo A. Saanen
December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Full text available: 📄 pdf(208.00 KB)   Additional Information: full citation, abstract, references

Extending or changing systems that are in operation 24/7 should disturb the operation as little as possible. Therefore, the extensions or changes should have been thoroughly tested in advance under conditions comparable to operational conditions. Baggage handling systems is typically an area to which these requirements apply. Control software is one of the main components for baggage handling systems, at high and low level. Software is often the reason for system failure. Therefore, a need ex ...

43 Development of a distributed, cross-platform simulator ▬
Thomas C. Brooke
December 2002 **Proceedings of the 2002 annual ACM SIGAda international conference on Ada: The engineering of correct and reliable software for real-time & distributed systems using Ada and related technologies**

Full text available: 📄 pdf(167.33 KB)   Additional Information: full citation, abstract, references, index terms

In developing real-time mission control software for terminals in a large satellite communications system, my team realized that a script-based stimulus/response tool was

inadequate for developmental testing and training. As an initial proof-of-concept, we first designed a monolithic, single-user system simulator for engineering development. During the project, the requirements expanded to include the addition of a multi-user, cross-platform capability, and later distribution in a two-tier clien ...

Keywords: Ada, distributed, linux, portability, satellite, simulation, testing, training, windows

44 PLI workshops: World-class product certification using Erlang

Ulf Wiger, Gösta Ask, Kent Boortz
December 2002 **ACM SIGPLAN Notices**, Volume 37 Issue 12

Full text available: pdf(195.51 KB)   Additional Information: full citation, abstract, references, index terms

It is now ten years ago since the decision was made to apply the functional programming language Erlang to real production projects at Ericsson. In late 1995, development on the Open Telecom Platform (OTP) started, and in mid 1996 the AXD 301 project became the first user of OTP. The AXD 301 Multi-service Switch was released in October 1998, and later became "the heart of ENGINE", Ericsson's leading Voice over Packet solution.In those early days of Erlang programming, high-level tools for develo ...

Keywords: Erlang, testing

45 World-class product certification using Erlang

Ulf Wiger, Gösta Ask, Kent Boortz
October 2002 **Proceedings of the 2002 ACM SIGPLAN workshop on Erlang**

Full text available: pdf(162.26 KB)   Additional Information: full citation, abstract, references, citings, index terms

It is now ten years ago since the decision was made to apply the functional programming language Erlang to real production projects at Ericsson. In late 1995, development on the Open Telecom Platform (OTP) started, and in mid 1996 the AXD 301 project became the first user of OTP. The AXD 301 Multi-service Switch was released in October 1998, and later became "the heart of ENGINE", Ericsson's leading Voice over Packet solution.In those early days of Erlang programming, high-level tools for develo ...

Keywords: erlang, testing

46 Supporting the WWW in wireless communications through mobile agents

Stathes Hadjiefthymiades, Vicky Matthaiou, Lazaros Merakos
August 2002 **Mobile Networks and Applications**, Volume 7 Issue 4

Full text available: pdf(358.70 KB)   Additional Information: full citation, abstract, references, citings, index terms

Mobile computing is considered of major importance to the computing industry for the forthcoming years due to the progress in wireless mobile communications. We present a proxy-based architecture that manages to accelerate Web browsing in wireless Customer Premises Networks (CPN). We discuss how such an architecture is implemented using the IBM Aglets framework for mobile agents. The suggested architecture relies heavily on proxy caches --- maintained in base stations --- which are relocated to ...

Keywords: WWW, aglets, mobile agents, mobile computing, pro-active resource management, proxy caches, wireless networks

47 Applications of Java programming: Distributed computing for DNA analysis
T. Keane, R. Allen, T. J. Naughton, J. McInerney, J. Waldron
June 2002 **Proceedings of the inaugural conference on the Principles and Practice of programming, 2002 and Proceedings of the second workshop on Intermediate representation engineering for virtual machines, 2002 PPPJ '02/IRE '02**
Full text available: 📄 pdf(485.38 KB)   Additional Information: full citation, abstract, references, index terms

> We report on extensions to a Java distributed computation library (JDCL) by Fritsche, Power, and Waldron, with application to a problem in the field of bioinformatics. Within our framework the system has been extended to support applications requiring a MIMD (multiple instruction, multiple data) architecture. The system has been evaluated through a DNA pattern matching application over a network of 90 PCs. The user is required to extend only two Java classes to completely configure a distributed ...

48 Inferring client response time at the web server
David P. Olshefski, Jason Nieh, Dakshi Agrawal
June 2002 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2002 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 30 Issue 1
Full text available: 📄 pdf(693.53 KB)   Additional Information: full citation, abstract, references, citings, index terms

> As businesses continue to grow their World Wide Web presence, it is becoming increasingly vital for them to have quantitative measures of the client perceived response times of their web services. We present Certes (CliEnt Response Time Estimated by the Server), an online server-based mechanism for web servers to measure client perceived response time, as if measured at the client. Certes is based on a model of TCP that quantifies the effect that connection drops have on perceived client respons ...

Keywords: client perceived response time, web server

49 A parallel, incremental and concurrent GC for servers
Yoav Ossia, Ori Ben-Yitzhak, Irit Goft, Elliot K. Kolodner, Victor Leikehman, Avi Owshanko
May 2002 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2002 Conference on Programming language design and implementation**, Volume 37 Issue 5
Full text available: 📄 pdf(231.80 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Multithreaded applications with multi-gigabyte heaps running on modern servers provide new challenges for garbage collection (GC). The challenges for "server-oriented" GC include: ensuring short pause times on a multi-gigabyte heap, while minimizing throughput penalty, good scaling on multiprocessor hardware, and keeping the number of expensive multi-cycle fence instructions required by weak ordering to a minimum. We designed and implemented a fully parallel, incremental, mostly concurrent colle ...

Keywords: JVM, Java, concurrent garbage collection, garbage collection, incremental garbage collection, weak ordering

50 Design Automation: Board-level multiterminal net assignment
Xiaoyu Song, William N. N. Hung, Alan Mishchenko, Malgorzata Chrzanowska-Jeske, Alan Coppola, Andrew Kennings
April 2002 **Proceedings of the 12th ACM Great Lakes symposium on VLSI**
Full text available: 📄 pdf(125.12 KB)   Additional Information: full citation, abstract, references, index terms

The paper presents a satisfiability-based method for solving the board-level multiterminal net routing problem in Clos-Folded **FPGA** based logic emulation systems. The approach transforms the **FPGA** board-level routing task into a single, large Boolean equation with the property that any assignment of input variables that satisfies the equation specifies a valid routing. The approach considers all nets simultaneously and the absence of a satisfying assignment implies that the layout i ...

51 Web and e-business application: A cost-oriented methodology for the design of web based IT architectures
Danilo Ardagna, Chiara Francalanci
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available: pdf(628.40 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper proposes a design methodology of Web-based IT architectures tying organizational requirements to technical choices and costs. Information system design and optimum sizing is the result of a reconciliation of several conflicting requirements, including technical performance and costs. Web-based IT architectures involve a number of design choices with significant cost implications: the adoption of thin clients executing Web applications remotely, the choice of the number of architectura ...

Keywords: IT architectures, cost minimization, web architectures

52 A PDP-8 emulator program
Brian J. Shelburne
March 2002 **Journal on Educational Resources in Computing (JERIC)**, Volume 2 Issue 1

Full text available: pdf(270.03 KB)   Additional Information: full citation, abstract, references, citings, index terms

The clean, simple, and elegant architecture of the classic PDP-8 makes it an ideal candidate for studying concepts in computer organization. The PDP-8 emulator program allows a user to write, edit, assemble, debug, trace, and execute PDP-8 machine code and PDP-8 assembler language programs. With it, the user can obtain a feel for the PDP-8. The PDP-8 emulator program includes a simple built-in text editor which is used to write and edit PDP-8 assembler language programs, an assembler to translat ...

Keywords: Computer architecture simulator, education

53 An architecture for secure wide-area service discovery
Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz
March 2002 **Wireless Networks**, Volume 8 Issue 2/3

Full text available: pdf(365.68 KB)   Additional Information: full citation, abstract, references, citings, index terms

The widespread deployment of inexpensive communications technology, computational resources in the networking infrastructure, and network-enabled end devices poses an interesting problem for end users: how to locate a particular network service or device out of hundreds of thousands of accessible services and devices. This paper presents the architecture and implementation of a secure wide-area Service Discovery Service (SDS). Service providers use the SDS to advertise descriptions of available ...

Keywords: location services, name lookup, network protocols, service discovery

54 <u>On inferring TCP behavior</u>

Jitendra Pahdye, Sally Floyd

August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 31 Issue 4

Full text available: <u>pdf(147.31 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Most of the traffic in today's Internet is controlled by the Transmission Control Protocol (TCP). Hence, the performance of TCP has a significant impact on the performance of the overall Internet. TCP is a complex protocol with many user-configurable parameters and a range of different implementations. In addition, research continues to produce new developments in congestion control mechanisms and TCP options, and it is useful to trace the deployment of these new mechanisms in the Internet. As a ...

55 <u>Performance of broadcast and unknown server (BUS) in ATM LAN emulation</u>

Hairong Sun, Xinyu Zang, Kishor S. Trivedi

June 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 3

Full text available: <u>pdf(263.83 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this paper, we develop performance models of the Broadcast and Unkn own Server (BUS) in the LANE. The traffic on the BUS is divided into two classes: the broadcast and multicast traffic, and the unicast relay flow. The broadcast and multicast traffic is assumed to form a Markov Modulated Poisson Process (MMPP). The traffic for a particular unicast relay flow is an MMPP as well. However, the number of active unicast relay flows sojourning on the BUS is determined by a tan ...

Keywords: ATM, LAN emulation, broadcast and unknown server, stochastic petri net package, stochastic reward nets

56 <u>Wireless ATM network architectures</u>

Anna Hác

May 2001 **International Journal of Network Management**, Volume 11 Issue 3

Full text available: <u>pdf(93.42 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Emulated LAN technology supports mobile hosts in wireless ATM networks. This paper introduces virtual LAN (VLAN) services using ATM LAN emulation technology which operates on a client/server model. One of the attractive features of the VLAN is the capability to group users into a broadcast domain. The focus of this paper is the issue of supporting quality of service to mobiles in a wireless ATM network. Copyright © 2001 John Wiley & Sons, Ltd.

57 <u>Best of Technical Support</u>

March 2001 **Linux Journal**

Full text available: <u>html(13.29 KB)</u>   Additional Information: <u>full citation</u>, <u>index terms</u>

58 <u>The design and implementation of a progressive on-demand image dissemination system for very large images</u>

Michael J. Owen, Andrew K. Lui, Edward H. S. Lo, Mark W. Grigg

January 2001 **Australian Computer Science Communications , Proceedings of the 24th Australasian conference on Computer science ACSC '01**, Volume 23 Issue 1

Full text available: <u>pdf(855.36 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

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The use of progressive, on-demand image dissemination techniques can support efficient dissemination of very large images across networks. In this paper we examine the effectiveness of various design options in developing such on-demand dissemination systems. We show that the choice of the design options can have a profound impact on the efficient use of client, server, and network resources. Based on our performance evaluation experiments, we recommend that efficient dissemination can be achiev ...

59 Best of Technical Support

November 2000 **Linux Journal**

Full text available: html(14.58 KB)   Additional Information: full citation, index terms

60 IP data services over CDMA digital cellular

Phil Karn

October 2000 **ACM SIGMOBILE Mobile Computing and Communications Review,** Volume 4 Issue 4

Full text available: pdf(680.15 KB)   Additional Information: full citation, index terms

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